Chicken polyclonal antibody to Neurofilament Heavy phosphorylated

Catalogue No.:	C-1386-50
Description:	Neurofilaments contain three intermediate filament proteins: light (68 kDa), medium (160 kDa) and heavy (200 kDa). Neurofilament heavy (NF200 or NF-H) is phosphorylated and it is thought that this results in the formation of interfilament cross bridges that are important in the maintenance of axonal caliber. This antibody binds primarily to the phosphorylated axonal forms of NF-H.
Batch No.:	See product label
Unit size:	50 µl
Antigen:	Purified bovine Neurofilament Heavy (NF-H)
Isotype:	IgY
Other Names:	NF-200; NF200; NF-H; NEFH; N52; Neurofilament heavy polypeptide; Neurofilament triplet H protein; 200 kDa neurofilament protein; KIAA0845; NFH;
Accession:	P12036 NFH_HUMAN;
Produced in:	Chicken
Applications:	Western Blotting (WB), Immunocytochemistry (IC) and ELISA. Suggested dilution for WB is 1:100,000-1,000,000. Suggested dilution for IC is 1:50,000-100,000. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	This antibody reacts with phosphorylated NF-H and is seen as a band of approx 200 kDa in WB. Refer to publication by Shaw et al (2005) for the use of this antibody in an ELISA to detect NF-H.
Antibody Against:	Neurofilament Heavy phosphorylated
Cross-reactivity:	Hu, Rat, Ms, Fel, Chk. Predicted to react with other mammalian tissues due to sequence homology.
Form:	Lyophilised with 5% trehalose
Appearance:	White powder
Reconstitution:	Reconstitute in sterile distilled water. Centrifuge to remove any insoluble material.
Storage:	After reconstitution of lyophilised antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.
Expiry Date:	12 months after purchase
Specific References:	1. Jarjour A.A. et al (2007) Maintenance of axo-oligodendroglial paranodal junctions requires DCC and netrin-1. J Neurosci. 2008 Oct 22;28(43):11003-14.
	2. Pearse D.D. et al (2007) Transplantation of Schwann cells and/or olfactory ensheathing glia into the contused spinal cord: Survival, migration, axon association, and functional recovery. Glia. 2007 Jul;55(9):976-1000.

FOR RESEARCH USE ONLY

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3. Shaw G. et al (2005) Hyperphosphorylated neurofilament NF-H is a serum biomarker of axonal injury. Biochem Biophys Res Commun. 2005 Nov 4;336(4):1268-77.

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